



Certificate of Analysis

Graphitized multi-walled carbon nanotube, –COOH functionalized

Content of MWNTs (metal basis, excluding –COOH): 99.9%

Content of –COOH: 0.58-0.64%

Outside diameter: 20-30 nm

Inside diameter: 5-10 nm

Length: 5-30 μm

Stock#: 1243YJF

| Elements | Content (ppm) | Elements | Content (ppm) |
|----------|---------------|----------|---------------|
| Al | 21.8 | Mg | 9.38 |
| Ba | 3.17 | Mn | 0.23 |
| Ca | 741.7 | Ni | 7.82 |
| Cr | 0.46 | Pb | 0.81 |
| Cu | 0.28 | Si | 20.9 |
| Fe | 66.7 | | |

Analysis Methods: inductively coupled plasma (ICP)

X-ray photoelectron spectroscopy (XPS)

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